



FIGURE 7402

SlideLOK®

Rigid Coupling

Patent D680629, D680630



BUILDING CONNECTIONS THAT LAST



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Anvil International, a world-wide leader in mechanical piping products, is pleased to introduce the most advanced ready for installation coupling available, manufactured with pride in the U.S.A.

Utilizing advanced engineering, Anvil introduces the SlideLOK™ rigid coupling. The coupling is truly unique and offers the safest procedure for installation. There are no loose parts.

The coupling is installed by simply lubricating the exposed gasket surfaces, and then sliding the coupling completely over the pipe end. This method eliminates the possibility of the coupling falling off of the pipe as the entire SlideLOK coupling rests on the pipe end. Installation is completed by bringing the adjacent component up to the pipe end, and sliding the coupling back over both pipe ends. The joint is finished by tightening the two bolts with an impact wrench or socket wrench.

The SlideLOK coupling utilizes a tongue and groove design to eliminate gasket pinching. When the coupling is tightened bolt pad to bolt pad, the joint is completed. Simple and safe.

Specification Information:

Ready for installation couplings shall be Gruvlok #7402 in sizes 2" through 8". Gaskets shall be type "EP" EPDM for water service (-40°F to +250°F), and "T" Nitrile for petroleum services (-20°F to +180°F).

The SlideLOK coupling features our new pressure-responsive gasket. The patented gasket is the result of state-of-the-art CAD generated design. This innovative gasket features four separate sealing contacts to seal the gasket on the pipe. The gasket employs a unique leading edge to eliminate gasket pinching and patented gasket lips for easy slide action. The gasket is our EP formulated EPDM gasket and carries a 250°F temperature rating.



Installation

Ready for installation - right out of the box

Do not disassemble the SlideLOK™ Coupling. The Figure 7402 coupling is ready for installation. The bolt and gasket do not need to be removed.



Step 1 – Pipe Preparation

Pipe ends are to be rolled or cut grooved according to Anvil specifications. The pipe end must be smooth and free from metal burrs or projections.

Step 2 – Gasket Preparation

Ensure the gasket is suitable for the intended application by referring to the Anvil gasket compatibility chart. Apply a light coating of Gruvlok® Xtreme™ Lubricant to exposed gasket surfaces.

Step 3 – Assembly

The SlideLOK Figure 7402 may be installed by one of two methods. The preferred method depends on the type of pipe components being joined and their orientation. Please review both methods before installing.

Method #1

Slide the SlideLOK coupling completely over the grooved pipe end. This will allow a clear and un-obstructed view of the pipe for correct alignment.



A. Slide the coupling on the pipe past the groove. The bolts and nuts can be hand tightened to position the coupling in place.

B. Align the mating pipe end. Align the two adjoining pipes together.



C. Slide the coupling back over the grooves so that the coupling keys are located over the respective grooves on both pipe ends.

D. Follow the instructions on fastening the coupling as shown in Step 4.

METHOD

#1

Method #2

Slide the SlideLOK™ coupling half way onto the pipe end or fitting. This will better accommodate fitting, and valve accessories during installation.



A. Slide the coupling on the fitting so that the groove and keys are aligned.

B. Bring the pipe end or fitting towards the coupling and insert so that the groove and coupling keys are aligned.



C. Hand tighten the nuts to correctly position the couplings keys over the respective grooved ends

D. Follow the instructions on fastening the coupling as shown in Step 4.



Step 4 – Final Assembly

The SlideLOK coupling is designed to achieve pad to pad (metal-to-metal contact) using either an impact wrench* or wrench. The intended torque range for the coupling is located in the Table 1. Securely tighten nuts alternately and equally until the housing halves are in metal-to-metal contact.

Step 5 – Final Inspection

Ensure the coupling is properly aligned in the grooves and the housing halves are in metal-to-metal contact, depicted in the picture above.

Sizes	Torque (Ft-Lbs)
2" - 4"	80 - 100
5" - 6"	100 - 130
8"	130 - 180

*** CAUTION:** When using an impact wrench, verify that the output of the torque wrench is within the required torque range. It is recommended that a torque wrench be used for accurate assembly in order to obtain specified performance.



Re-Installation

Reinstallation of the Figure 7402 SlideLOK™ Coupling

The SlideLOK coupling is designed to be installed in the ready for installation assembly position once. After the initial assemble the following steps are to be taken to re-install the Fig. 7402 SlideLOK coupling.

Step 1 – De-pressurize the System

De-pressurize the system before removing the SlideLOK Coupling. Dis-assemble the couplings by removing the nuts, bolts and gasket from the housing halves. A wrench is required to overcome the epoxy used to secure the nuts on the bolts.



Step 2 – Pipe Preparation

Pipe ends are to be rolled or cut grooved according to Anvil specifications. The pipe end must be smooth and free from metal burrs or projections.



Step 3 – Gasket Preparation

Ensure the gasket is suitable for the intended application by referring to the Anvil gasket compatibility chart. A light coating of Gruvlok® Xtreme™ lubricant must be applied to the gasket prior to installation.

Step 4 – Pipe Alignment and Gasket Installation

Slide the gasket onto the pipe then align the two pipe ends together. Pull the gasket into position, centering it between the grooves on each pipe. Gasket should not extend into the groove on either pipe.



Step 5 – Housing Assembly

Place each housing halves on the pipe making sure the housing key fits into the groove. Be sure that the tongue and recess portions of the housing mate properly. Insert the bolts.



Step 6 – Final Assembly

The SlideLOK coupling is designed to achieve pad to pad (metal-to-metal contact) using either an impact wrench* or wrench. The intended torque range for the coupling is located in the Table 1. Securely tighten nuts alternately and equally until the housing halves are in metal-to-metal contact.

Step 7 – Final Inspection

Ensure the coupling is properly aligned in the grooves and the housing halves are in metal-to-metal contact, depicted in the picture above.

Table 1 – Torque Ranges

Sizes	Torque (Ft-Lbs)
2" - 4"	80 - 100
5" - 6"	100 - 130
8"	130 - 180

* **CAUTION:** When using an impact wrench, verify that the output of the torque wrench is within the required torque range. It is recommended that a torque wrench be used for accurate assembly in order to obtain specified performance.

Incorrect Installation Examples



Low Torque or Out of Groove



Excess Torque or Shallow Groove Dimension



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